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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known Application Number 10/621,027 Filing Date July 16, 2003 First Named Inventor Nai-Kong Cheung Art Unit 1623 **Examiner Name** Jason H. Johnsen Attorney Docket Number 639-B-PCT-US

			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Eso	6	^{US-} 2004/0248772	12-09-2004	Akikuni Yagita	
550	7	^{US-} 2004/0266726	12-30-2004	Akikuni Yagita	
550	8	US- 4,761,402	08-02-1988	Williams et al.	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Substitu	te for form 1446// PTO			Application Number	10/621,027		
INF	ORMATION	I DIS	CLOSURE	Filing Date	July 16, 2003		
STA	TEMENT E	A YE	PPLICANT	First Named Inventor	Nai-Kong Cheung		
				Art Unit	1623		
(Use as many sheets as necessary)			ecessary)	Examiner Name	Jason H. Johnsen		
Sheet	1	of	1	Attorney Docket Number	639-B-PCT-US		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Eso	1	Search Report prepared by the Norwegian Patent Office. dated May 4, 2005	
Eso Eso Eso	2	Hong et al., "Mechanism by Which Orally Administered ß-1,3-Glucans Enhance the Tumoricidal Activity of Antitumor Monoclonal Antibodies in Murine Tumor Models", Journal of Immunology, Vol. 173, No. 5, Pages 797-806 (2004)	
£50	3	Ostroff et al., "Immune-Enhancing Effects of Oral Yeast ß 1,3/1,6 Glucans", American Chemical Society, Vol. 225, No. 1-2, pp. AGFD 8 (2003)	
550	4	Allendorf et al., "Macrophages shuttle orally administered ß-glucan to potentiate the CR3-dependent tumoricidal effects of monoclonal antibodies in mouse tumor models", FASEB Journal, Vol. 17, No. 7, Page C128 (2004)	•
Eso	5 .	Papila et al., *The Effect of oral ß-glucan in addition to systemic chemotherapy on the leukocyte values with oral mucositis in the patients with head-neck tumors*, International Review of Allergology & Clinical Immunology, Vol 10, No. 2, Pages 59-61 (2004)	
			

Examiner Signature	Eric & Older	Date Considered	12/19/06

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

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Substitute for form 1449/PTO	Complete if Known		
:	Application Number	10/621,027	
INFORMATION DISCLOSURE	Filing Date	July 16, 2003	
STATEMENT BY APPLICANT	First Named Inventor	Nai-Kong Cheung	
(Use as many sheets as necessary)	Art Unit	1623	
(555 55 1131) 5/10015 65 110005551)	Examiner Name	Jason H. Johnson	
Sheet 1 of 1	Attorney Docket Number	639-B-PCT-US	

<u></u>	1 0'4	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
Eso	11	Kidd, P., "The Use of Mushroom Glucans and Proteopglycans in Cancer Treatment", Alternative Medicine Review, Vol. 5, No. 1, Pages 4-27 (2000)	
	12	Hanaue, H. et al, "Effects of Oral Lentinan on T-Cell Subsets in Periphel Venous Blood", Clinical Therapuetics, Vol. 5 (1989)	
	13	Suzuki, M. et al, "Antitumor and Immunological Activity of Lentinan in Comparison with LPS", International Society of Pharmacology, Ltd., Pages 463-468 (1994)	
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V	16	Mayer, L.; Shao, L., "Therapeutic Potential of Oral Tolerance", Nature Reviews Immunology, Vol. 4, Pages 407-419 (2004)	

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1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known **Application Number** 10/621,027 INFORMATION DISCLOSURE Filing Date July 16, 2003 STATEMENT BY APPLICANT **First Named Inventor** Nai-Kong Cheung **Art Unit** 1623 (Use as many sheets as necessary) **Examiner Name** Jason H. Johnsen Attorney Docket Number Sheet 639-B-PCT-US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ESO	1	PCT International Search Report for Sloan-Kettering Institute for Cancer Research, Int'l Application No. PCT/US04/23099, Filed July 16, 2004, Dated February 28, 2005	
	2	Babineau, T. et al., "Randomized Phase I/II Trial of a Macrophage-Specific Immunomodulator (PGG-Glucan) in High-Risk Surgical Patients", Annals of Surgery, Vol. 220, No. 5, Pages 601-609 (1994)	
	3	Babineau, T. et al., "A Phase II Multicenter, Double-blind, Randomized, Placebo-Controlled Study of Three Dosages of an Immunomodulator (PGG-Glucan) in High Risk Surgical Patients", Arch Surg, Vol. 129, Pages 1204-1210 (1994)	
	4	Arturson, G.; Wallenius, G., "The Renal Clearance of Dextran of Different Molecular Sizes in Normal Humans", Scandinaz J Clin & Lab Investigation, Vol. 1, Pages 81-86 (1964)	
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	7	Sortwell, R. et al., "Chronic Intravenous Administration of Lentinan to the Rhesus Monkey", Toxicology Letters, Vol. 9, Pages 81-85 (1981)	
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	9	Mehvar, R., "Recent Trends in the Use of Polysaccarides for Improved Delivery of Therapeutic Agents: Pharmacokientic and Pharmacodynamic Perspectives", Current Pharmaceutical Biotechnology, Vol. 4, Pages 283-302 (2003)	
V	10	Hanaue, H. et al., "Basic Studies on Oral Administration of Lentinan (I)", J. Jpn. Cancer Ther., Vol. 8, Pages 1566-1571 (1989)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known				
Application Number	10/621,027			
Filing Date	July 16, 2003			
First Named Inventor	Nai-Kong Chueng			
Art Unit				
Examiner Name				
Attorney Docket Number	639-B-PCT-US			

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Application Number Substitute for form 1449/PTO INFORMATION DISCLOSURE **Filing Date** July 16, 2003 STATEMENT BY APPLICANT **First Named Inventor** Nai-Kong CHEUNG Art Unit (Use as many sheets as necessary) **Examiner Name** Sheet **Attorney Docket Number** 2 2 639-B-PCT-US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
Eso	3	Ross, et al. Therapeutic intervention with complement and beta-glucan in cancer, Immunopharmacology 42(1999), 61-74	
50	4	Vetvicka, et al. Pilot Study: Orally-administered Yeast beta-(1,3)-glucan prophylactically protect against anthrax infection and cancer in mice. Journ Ameri Nutraceutical Assoc, Vol. 5:2, April 22, 2002	
Eso	5	Cheung, N.K. Orally administered beta-glucans enhance anti-tumor effects of monoclonal antibodies. Cancer Immunother. 2002 Nov; 51(10):557-64	
Eso	6	Suzuki, et al. Effect of orally administered beta-glucan on macrophage function in mice. Int. J. Immunopharmacology 12:6, 675-684, 1990	

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Application Number	10/621,027	
Filing Date	July 16, 2003	
First Named Inventor	Nai-Kong Chueng	
Art Unit		
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Eso	1	WO 00/15238	03/23/2000	Pavliak, et al.		Г
1	2	EP 0194851	09/17/1986	Wistar Institute		
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50	1	WO 2004/014320 A2	02/19/2004	Ostroff, et al.		
1	2	WO 2004/014320 A3	02/19/2004	Ostroff, et al.		
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$\overline{\Psi}$	4	WO 2004/021994 A3	03/18/2004	Ostroff, et al.		

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Application Number	10/621,027			
L	July 16, 2003			
First Named Inventor	Nai-Kong CHEUNG			
Art Unit				
Examiner Name				
Attorney Docket Number	639-B-PCT-US			
	Application Number Filling Date First Named Inventor Art Unit Examiner Name			

		NON PATENT LITERATURE DOCUMENTS				
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
Eso	1	S. Tsukagoshi, Y. Hashimoto, G. Fujii, H. Kobayashi, K. Nomoto, and K. Orita, Krestin (PSK). Cancer Treat. Rev. 11:131-155, 1984.				
	2	H. Nanba, H. and H. Kuroda, Antitumor mechanisms of orally administered shiitake fruit bodies. Chem. Pharm. Bull. (Tokyo) 35:2459-2464, 1987.				
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INFORMATION DISCLOSURE				Filing Date	July 16, 2003		
(Use as many sheets as necessary)			PPLICANT	First Named Inventor	Nai-Kong CHEUNG		
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Sheet 2

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ESO	11	K. Hayakawa, N. Mitsuhashi, Y. Saito, M. Takahashi, S. Katano, K. Shiojima, M. Furuta, and H. Niibe, Effect of krestin (PSK) as adjuvant treatment on the prognosis after radical radiotherapy in patients with non-small cell lung cancer. Anticancer Res. 13:1815-1820,1993.			
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1		Immunology, 162:2281-2290, 1999			

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